



NITROGEN

UN 1066 (Compressed gas)
UN 1977 (Refrigerated liquid, Cryogenic Liquid)
Shipping Name: UN 1066 Nitrogen, compressed
UN 1977 Nitrogen, refrigerated liquid (cryogenic liquid)
Other Names: Nitrogen gas
Nitrogen liquid



Hazards:

- Odor is not a reliable indicator of the presence of toxic amounts of gas
- Cold vapors are heavier than air and will collect and stay in low areas
- Container may BLEVE or explode when exposed to fire
- Contact with liquid may cause frostbite

Awareness and Operational Level Training

Response:

- Stay upwind and uphill
- Determine the extent of the problem
- Isolate the area of release or fire and deny entry
- For container exposed to fire evacuate the area in all directions because of the risk of BLEVE or explosion
- Notify local health and fire officials

Description:

- Colorless gas or faint yellow liquid
- Shipped and stored as a compressed gas or cryogenic liquid
- No odor
- Liquid floats on the surface of water and boils; gas is insoluble in water
- Nonflammable
- Cold vapors are heavier than air and will collect and stay in low areas

Operational Level Training Response:

RELEASE, NO FIRE:

- Stop the release if it can be done safely from a distance
- Ventilate confined area if it can be done without placing personnel at risk

FIRE:

- Material does not burn; fight surrounding fire with an agent appropriate for the burning material
- Cool exposed noncryogenic containers with large quantities of water from unattended equipment or remove intact containers if it can be done safely
- If cooling streams are ineffective (venting sound increases in volume and pitch, tank discolors or shows any signs of deforming), withdraw immediately to a secure location
- DO NOT APPLY WATER TO CRYOGENIC LIQUID CONTAINERS; if cryogenic liquid containers are exposed to direct flame or elevated temperatures for prolonged times, withdraw immediately to a secure location

First Aid:

- Provide Basic Life Support/CPR as needed
- Decontaminate the victim as follows:
 - ♦ Inhalation - remove the victim to fresh air and give oxygen if available
- Seek medical attention
- Frostbite - warm injured area in very warm water
- Toxic effects may be delayed

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